

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A correction ink for micro defect of a color pattern comprising a coloring agent, monomer having two or more reactivity functional group, polymer and a solvent, wherein an amount of the solvent is from 25 % by weight to 70 % by weight of the whole ink, and a viscosity of the ink is from 40 to 300 mPa•sec.

2. (Original) A correction ink for micro defect of a color pattern according to claim 1, wherein τ value is 0.3 to 1.3 when γ value is 10 and τ value is 4.0 to 10.0 when γ value is 100 in the following formula (1):

$$\tau = K \gamma^L \quad \dots \quad \text{formula (1)}$$

wherein $0.081 \leq K \leq 0.111$, $0.881 \leq L \leq 0.954$

3. (Original) A correction ink for micro defect of a color pattern according to claim 1, wherein τ value is 0.3 to 10 when γ value is 10 to 100 having slope of 0.075 to 0.15 and degree of 0.8 to 1.1 in the following formula (1):

$$\tau = K \gamma^L \quad \dots \quad \text{formula (1)}$$

wherein $0.081 \leq K \leq 0.111$, $0.881 \leq L \leq 0.954$

4. (Original) A correction ink for micro defect of a color pattern according to claim 1, wherein static surface tension of the ink at 25 °C is 20 mN/m to 45 mN/m.

5. (Cancelled)

6. (Original) A correction ink for micro defect of a color pattern according to claim 1, further comprising a polymerization inhibitor.

7. (Original) A correction ink for micro defect of a color pattern according to claim 1, wherein said polymer is diallylphthalate prepolymer.
8. (Original) A correction ink for micro defect of a color pattern according to claim 1, wherein the ink is a correcting black ink containing a red coloring agent, a yellow coloring agent and a blue coloring agent as said coloring agents.
9. (Original) A correcting black ink for micro defect of a color pattern according to claim 8, wherein an optical density is 1.0 or more in the measuring wave range of 400 nm to 760 nm when a layer thickness at curing is less than 1.9 μm .
10. (Original) A color filter, wherein a micro defect in a color pattern is corrected by filling with cured product of a correction ink for micro defect of a color pattern comprising a coloring agent, monomer having reactivity functional group, polymer and a solvent, wherein an amount of the solvent is from 25 % by weight to 70 % by weight of the whole ink, and a viscosity of the ink is from 40 to 300 mPa•sec.
11. (Original) A color filter according to claim 10, wherein a defect in a black matrix pattern is corrected by filling with cured product of the correcting black ink containing a red coloring agent, a yellow coloring agent and a blue coloring agent as coloring agents.
12. (Original) A color filter according to claim 10, wherein difference in level between a corrected part by the ink and surroundings thereof is -3 μm to +5 μm .
13. (Currently Amended) A method for correcting a micro defect in a color pattern comprising steps of:

applying, onto a small defect portion in a colored pattern, a correction ink for micro defect of a color pattern comprising a coloring agent, monomer having two or more reactivity functional groups in one molecule, polymer and a solvent, wherein an amount of the solvent is from 25 % by weight to 70 % by weight of the whole ink and a viscosity of the ink is from 40 to 300 mPa•sec.; and

radiating light thereon to cure.

14. (Currently Amended) A process for producing a correction ink for a micro defect in a color pattern comprising a coloring agent, monomer having two or more reactivity functional groups in one molecule, polymer and a solvent, wherein an amount of the solvent is from 25 % by weight to 70 % by weight of the whole ink, comprising steps of:

preparing a coloring agent dispersion by dispersing each ~~the~~ coloring agent separately or at the same time in the solvent in the solvent;

preparing varnish by mixing the monomer having reactivity functional group with the polymer; and

mixing the prepared coloring agent dispersion with the varnish.

15. (Original) A process for producing a correction ink for a micro defect in a color pattern according to claim 14, wherein the ink has a viscosity from 40 to 300 mPa•sec.

16. (Original) A process for producing a correction ink for a micro defect in a color pattern according to claim 14, wherein a polymerization inhibitor is added at the varnish preparing step.

17. (Original) A process for producing a correction ink for a micro defect in a color pattern according to claim 14, wherein the polymer is heated and melted at the varnish preparing step.

18. (Original) A process for producing a correction ink for a micro defect in a color pattern according to claim 14, wherein the monomer having reactivity functional group at the varnish preparing step is a photo-curable resin.
19. (Original) A process for producing a correction ink for a micro defect in a color pattern according to claim 14, wherein an amount of the solvent is from 25 % by weight to 55 % by weight of the whole ink.
20. (New) A correction ink for micro defect of a color pattern according to claim 1, wherein an amount of the monomer is from 15% by weight to 65% by weight of the total amount of the correction ink.
21. (New) A process for producing a correction ink for a micro defect in a color pattern according to claim 14, wherein the solvent is selected from the group consisting of alcohols solvent, cellosolves solvent, carbitols solvent, esters solvent, ketones solvent, cellosolve acetates solvent, carbitol acetates solvent, ethers solvent, aproticamide solvent, lactones solvent, unsaturated hydrocarbons solvent, saturated hydrocarbons solvent, and a mixture thereof.